| Item    | SAI#           | Applicant Project Title Follows   |  |              | Funding     |           | Positions |       |       |
|---------|----------------|---|--|--------------|-------------|-----------|-----------|-------|-------|
| nem     | JAI#           | Аррисанс  | Froject Title  | Federal      | State       | Other     | Federal   | State | Other |
| ew Bus  | siness         | _   |  |              |             |           |           |       |       |
|         | Not Applicable |   |  |              |             |           |           |       |       |
| ontinue | ed             | _   |  |              |             |           |           |       |       |
| 1       | <u>2311</u>    | Department of State, Office of the Secretary, Administration  | State Trade and Export Promotion   | \$276,741    | \$92,247    | \$0       | 0.00      | 0.00  | 0.00  |
| 2       | <u>2241</u>    | Department of Health and Social Services, State Service Centers   | Low-Income Home Energy Assistance Program  | \$12,000,000 | \$0         | \$0       | 2.27      | 0.00  | 0.00  |
| 3       | 2302           | Department of Health and Social Services, Substance Abuse and Mental Health, Administration                                   | Permanent Housing for Adults with Psychiatric Disabilities                         | \$178,181    | \$218,919   | \$0       | 0.00      | 0.00  | 0.00  |
| 4       | 2309           | Department of Health and Social Services, Public Health, Community Health   | Early Childhood Comprehensive Systems  | \$140,000    | \$0         | \$0       | 1.00      | 0.00  | 0.00  |
| 5       | 2317           | Department of Health and Social Services, Public Health, Community Health   | State Partnership to Improve Minority Health                                       | \$200,000    | \$0         | \$0       | 0.00      | 0.00  | 0.00  |
| 6       | 2320           | Department of Health and Social Services, Public Health, Community Health   | Epidemiology and Laboratory Capacity for Infectious Diseases - Affordable Care Act | \$654,853    | \$0         | \$0       | 1.40      | 0.00  | 0.00  |
| 7       | <u>2321</u>    | Department of Health and Social Services, Public Health, Community Health   | Epidemiology and Laboratory Capacity for Infectious Diseases                       | \$793,060    | \$0         | \$0       | 2.60      | 0.00  | 0.00  |
| 8       | 2326           | Department of Health and Social Services, State Service Centers   | AmeriCorps-Fixed   | \$88,125     | \$0         | \$0       | 0.00      | 0.00  | 0.00  |
| 9       | <u>2327</u>    | Department of Health and Social Services, State Service Centers   | AmeriCorps-State Formula   | \$652,000    | \$0         | \$655,456 | 0.00      | 0.00  | 0.00  |
| 10      | <u>2328</u>    | Department of Health and Social Services, State Service Centers   | AmeriCorps-State Competitive   | \$64,192     | 0           | \$65,001  | 0.00      | 0.00  | 0.00  |
| 11      | <u>2288</u>    | Department of Natural Resources and Environmental Control, Office of the Secretary, Environmental Finance                     | Clean Water State Revolving Fund   | \$6,863,000  | \$1,372,600 | \$0       | 0.00      | 0.00  | 0.00  |
| 12      | <u>2299</u>    | Department of Natural Resources and Environmental Control, Office of the Secretary, Coastal Programs                          | Delaware Coastal Management Program Implementation Grant                           | \$1,307,000  | \$1,219,000 | \$0       | 10.70     | 7.00  | 0.00  |
| 13      | <u>2303</u>    | Department of Natural Resources and Environmental Control, Office of Environmental Protection, Waste and Hazardous Substances | Support Agency Cooperative Agreement - DuPont Newport                              | \$2,000      | \$0         | \$0       | 0.02      | 0.00  | 0.00  |
| 14      | <u>2304</u>    | Department of Natural Resources and Environmental Control, Office of Environmental Protection, Waste and Hazardous Substances | Support Agency Cooperative Agreement - CORE  | \$200,000    | \$40,356    | \$0       | 2.70      | 0.00  | 0.00  |
| 15      | <u>2305</u>    | Department of Natural Resources and Environmental Control, Office of Natural Resources, Fish and Wildlife                     | Conservation Reserve Program   | \$22,966     | \$69        | \$0       | 0.00      | 0.00  | 0.00  |
| 16      | <u>2319</u>    | Department of Natural Resources and Environmental Control, Office of Natural Resources, Fish and Wildlife                     | Fisheries Technical Assistance   | \$194,328    | \$64,776    | \$0       | 1.96      | 0.56  | 0.00  |
| 17      | 1730 Amendment | Department of Natural Resources and Environmental Control, Office of Natural Resources, Fish and Wildlife                     | Amphibian and Reptile Monitoring and Conservation                                  | \$13,500     | \$7,269     | \$0       | 0.02      | 0.04  | 0.00  |

| Item | SAI#                           | Applicant  | Project Title   | Federal      | Funding<br>State | Other       | Pederal | ositions<br>State |      |
|------|--------------------------------|--|---|--------------|------------------|-------------|---------|-------------------|------|
| 18   | 2008-02-01-01 -<br>Amendment 4 | Department of Natural Resources and Environmental Control, Office of Natural Resources, Fish and Wildlife                        | Northeast Wildlife Teamwork Strategy  | \$37,591     | \$113            | \$37,478    | 0.00    | 0.00              | 0.00 |
| 19   | 2012-08-16-04 -<br>Amendment   | Department of Natural Resources and Environmental Control, Office of Environmental Protection, Waste and Hazardous Substances    | Support Agency Cooperative Agreement - Standard Chlorine/Metachem Fund Lead RD OU-2 | \$6,000      | \$0              | \$0         | 0.04    | 0.00              | 0.00 |
| 20   | 2012-01-12-03 -<br>Amendment 2 | Department of Natural Resources and Environmental Control, Office of Environmental Protection, Waste and Hazardous Substances    | Support Agency Cooperative Agreement - Chem Solv                                    | \$6,000      | \$0              | \$0         | 0.05    | 0.00              | 0.00 |
| 21   | 2012-01-12-04 -<br>Amendment 2 | Department of Natural Resources and Environmental Control, Office of Environmental Protection, Waste and Hazardous Substances    | Support Agency Cooperative Agreement - NCR Millsboro                                | \$2,000      | \$0              | \$0         | 0.02    | 0.00              | 0.00 |
| 22   | 2012-08-16-02 -<br>Amendment 2 | Department of Natural Resources and Environmental Control, Office of<br>Environmental Protection, Waste and Hazardous Substances | Support Agency Cooperative Agreement - Millsboro TCE AOC #1                         | \$7,200      | \$0              | \$0         | 0.07    | 0.00              | 0.00 |
| 23   | 2306                           | Department of Safety and Homeland Security, Office of the Secretary, Delaware Emergency Management Agency                        | Emergency Management Performance Grant  | \$3,233,715  | \$2,044,080      | \$1,189,635 | 28.30   | 9.20              | 0.00 |
| 24   | 2015-04-24-01                  | Safety and Homeland Security, State Police, Executive  | Asset Forfeiture/Treasury   | \$3,000,000  | \$0              | \$0         | 0.00    | 0.00              | 0.00 |
| 25   | 2015-04-24-02                  | Safety and Homeland Security, State Police, Executive  | Asset Forfeiture/Justice  | \$7,000,000  | \$0              | \$0         | 0.00    | 0.00              | 0.00 |
| 26   | 2015-05-27-01                  | Department of Safety and Homeland Security, Office of the Secretary, Delaware Emergency Management Agency                        | Radiological Emergency Preparedness Program   | \$0          | \$0              | \$1,316,392 | 10.25   | 0.00              | 0.00 |
| 27   | 2318                           | Department of Labor, Office of Occupational and Labor Market Information   | Workforce Information Grant   | \$299,203    | \$0              | \$0         | 1.50    | 0.00              | 0.00 |
| 28   | 2133 Amendment                 | Department of Education  | School Climate and Student Success  | \$1,839,079  | \$0              | \$0         | 0.00    | 0.00              | 0.00 |
| 29   | <u>2325</u>                    | Department of Education  | Title I, Part G - Advanced Placement Test Fee                                       | \$100,000    | \$0              | \$0         | 0.00    | 0.00              | 0.00 |
| 30   | 2329                           | Department of Education  | Carl D. Perkins Career and Technical Education                                      | \$4,725,500  | \$0              | \$0         | 3.17    | 0.00              | 0.00 |
| 31   | 2330                           | Department of Education  | Title III - English Acquisition   | \$1,352,325  | \$0              | \$0         | 0.70    | 0.00              | 0.00 |
| 32   | <u>2331</u>                    | Department of Education  | Title I, Part A - Improving the Academic Achievement of the Disadvantaged           | \$44,406,250 | \$0              | \$0         | 1.55    | 0.00              | 0.00 |
| 33   | <u>2340</u>                    | Department of Education  | Individuals with Disabilities Education Act, Part B, Section 611 - State Grant      | \$35,063,788 | \$0              | \$0         | 9.20    | 0.00              | 0.00 |
| 34   | 2342                           | Department of Education  | Individuals with Disabilities Education Act, Part B, Section 619 - Preschool        | \$1,332,032  | \$0              | \$0         | 0.00    | 0.00              | 0.00 |
| 35   | 2344                           | Department of Education  | Title II, Part A - Improving Teacher Quality  | \$10,833,470 | \$0              | \$0         | 1.75    | 0.00              | 0.00 |
| 36   | <u>2345</u>                    | Department of Education  | Title II, Part A - State Agencies for Higher Education                              | \$286,405    | \$0              | \$0         | 0.30    | 0.00              | 0.00 |
| 37   | <u>2347</u>                    | Department of Education  | School Breakfast Program  | \$10,200,000 | \$0              | \$0         | 0.00    | 0.00              | 0.00 |
| 38   | <u>2348</u>                    | Department of Education  | School Lunch Program  | \$32,100,000 | \$487,127        | \$0         | 0.00    | 0.00              | 0.00 |

| Item     | SAI#          | Applicant                 | Project Title   | Federal      | Funding<br>State | Other     | Po<br>Federal | sitions<br>State |      |
|----------|---------------|---------------------------|---|--------------|------------------|-----------|---------------|------------------|------|
| 39       | <u>2349</u>   | Department of Education   | Speical Milk Program  | \$50,000     | \$0              | \$0       | 0.00          | 0.00             | 0.00 |
| 40       | <u>2350</u>   | Department of Education   | Child and Adult Care Food Program   | \$15,000,000 | \$0              | \$0       | 1.92          | 0.00             | 0.00 |
| 41       | <u>2351</u>   | Department of Education   | Child and Adult Care Food Program - Cash in Lieu  | \$725,000    | \$0              | \$0       | 0.00          | 0.00             | 0.00 |
| 42       | 2352          | Department of Education   | Child and Adult Care Food Program - Sponsor   | \$725,000    | \$0              | \$0       | 0.00          | 0.00             | 0.00 |
| 43       | 2353          | Department of Education   | Summer Food Service Program   | \$2,391,673  | \$0              | \$0       | 0.50          | 0.00             | 0.00 |
| 44       | <u>2354</u>   | Department of Education   | Fresh Fruit and Vegetable Program   | \$2,021,482  | \$0              | \$0       | 0.00          | 0.00             | 0.00 |
| 45       | 2355          | Department of Education   | National School Lunch Program - Equipment Assistance Grant  | \$68,591     | \$0              | \$0       | 0.00          | 0.00             | 0.00 |
| 46       | <u>2357</u>   | Department of Education   | State Administrative Expenses for Child Nutrition   | \$937,457    | \$242,846        | \$0       | 4.08          | 2.50             | 0.00 |
| Higher E | Education     |                           |   |              |                  |           |               |                  |      |
| 1        | 2015-07-01-01 | HE/University of Delaware | NSBRI FELLOWSHIP  | \$0          | \$0              | \$50,840  |               |                  |      |
| 2        | 2015-07-01-02 | HE/University of Delaware | Predictive Phenotypes Of Secondary Knee OA  | \$1,911,863  | \$0              | \$0       |               |                  |      |
| 3        | 2015-07-01-03 | HE/University of Delaware | Research Agreement between SABIC Innovative Plastics US LLC and the University of Delaware  | \$0          | \$0              | \$128,823 |               |                  |      |
| 4        | 2015-07-01-04 | HE/University of Delaware | Impact of Microbial Respiration Pathway on CO2 Efflux: Scaling-up of<br>Molecular Biogeochemical Reactions to Field-Scale Response in<br>Manure Applied Soils | \$636,243    | \$0              | \$0       |               |                  |      |
| 5        | 2015-07-01-05 | HE/University of Delaware | Waterfowl and Highly Pathogenic Avian Influenza (HPAI): Spatio-<br>Temporal Risk Mapping of HPAI in the Central Valley of California                          | \$0          | \$0              | \$84,987  |               |                  |      |
| 6        | 2015-07-01-06 | HE/University of Delaware | Synthesis and Observation of Emergent Phenomena in Heusler Compound Heterostructures  | \$0          | \$0              | \$148,843 |               |                  |      |
| 7        | 2015-07-01-07 | HE/University of Delaware | ACL Reconstructed Knee: qMRI and Biomechanical Modeling   | \$1,387,275  | \$0              | \$0       |               |                  |      |
| 8        | 2015-07-01-08 | HE/University of Delaware | Impact of Botulinum Toxin and Vibration on Muscle Quality and Physical Activity in Children With Cerebral Palsy   | \$1,012,124  | \$0              | \$0       |               |                  |      |
| 9        | 2015-07-01-09 | HE/University of Delaware | Improving Food Security Using Genomics and Breeding to Understand Chicken Responses to Abiotic and Biotic Stress  | \$2,546,001  | \$0              | \$0       |               |                  |      |
| 10       | 2015-07-01-10 | HE/University of Delaware | Planning of Stochastic Behavior in Small Scale Robots and the Related Risk in High-Speed Navigation   | \$0          | \$0              | \$40,625  |               |                  |      |
| 11       | 2015-07-01-11 | HE/University of Delaware | Collaborative Research on Deep Ocean Warming and Surface Warming Hiatus   | \$16,026     | \$0              | \$0       |               |                  |      |
| 12       | 2015-07-01-12 | HE/University of Delaware | Implementing the Baseline Characterization of Mercury in Carolina Wrens (Thryothorus Iudovicianus) Along the South River, Virginia                            | \$0          | \$0              | \$102,129 |               |                  |      |

| Item | SAI#          |                           | Applicant | Project Title  | Federal      | Funding<br>State | Other     | Positions<br>Federal State Other |
|------|---------------|---------------------------|-----------|--|--------------|------------------|-----------|----------------------------------|
| 13   | 2015-07-01-13 | HE/University of Delaware |           | Harnessing the Tools of Developmental and Neural Science to Analyze Speech Processing in Infants with Hearing Loss     | \$0          | \$0              | \$621,368 |                                  |
| 14   | 2015-07-01-14 | HE/University of Delaware |           | Information Processing & Fusion: Vulnerability Detection Using Data-<br>Flow Graphs and SMT Solvers                    | \$56,643     | \$0              | \$0       |                                  |
| 15   | 2015-07-01-15 | HE/University of Delaware |           | Helical Proteomimetics to Prevent HIV Entry  | \$275,000    | \$0              | \$0       |                                  |
| 16   | 2015-07-01-16 | HE/University of Delaware |           | HHS OPRE Dissertation Hallam Hooper  | \$39,062     | \$0              | \$0       |                                  |
| 17   | 2015-07-01-17 | HE/University of Delaware |           | Hazing in US Public High Schools   | \$531,326    | \$0              | \$0       |                                  |
| 18   | 2015-07-01-18 | HE/University of Delaware |           | SHF:SMALL: Assisting Developers in the Creation and Maintenance of Unit Tests  | \$319,319    | \$0              | \$0       |                                  |
| 19   | 2015-07-01-19 | HE/University of Delaware |           | Quantitative Assessment of Protective Garment Effects on Soldier Performance   | \$12,425     | \$0              | \$0       |                                  |
| 20   | 2015-07-01-20 | HE/University of Delaware |           | Can Clinical Measures Predict Real-World Walking Performance in Adults with Transtibial Amputations?                   | \$0          | \$0              | \$22,727  |                                  |
| 21   | 2015-07-01-21 | HE/University of Delaware |           | Annual Renewal of the Beneficial Insect Lab 15 Continuation of ENTO352178 F/A limited to 10.%                          | \$4,545      | \$0              | \$0       |                                  |
| 22   | 2015-07-01-22 | HE/University of Delaware |           | NCC Council Grants   | \$0          | \$0              | \$1,500   |                                  |
| 23   | 2015-07-01-23 | HE/University of Delaware |           | S2I2: Impl: Chemicals and Materials Software Institute   | \$15,114,020 | \$0              | \$0       |                                  |
| 24   | 2015-07-01-24 | HE/University of Delaware |           | Tolerance for Human Pathogens in Reptiles and Birds  | \$0          | \$0              | \$275,714 |                                  |
| 25   | 2015-07-01-25 | HE/University of Delaware |           | Understanding Effects of Traumatic Insults on Brain Structure and Function   | \$51,282     | \$0              | \$0       |                                  |
| 26   | 2015-07-01-26 | HE/University of Delaware |           | Packaging High Power Photodetectors  | \$52,810     | \$0              | \$0       |                                  |
| 27   | 2015-07-01-27 | HE/University of Delaware |           | Are Nonnative Invasive Plants Enhancing N Cycling And Loss From Forest Fragments And How Significant Is This Effect?   | \$372,773    | \$0              | \$0       |                                  |
| 28   | 2015-07-01-28 | HE/University of Delaware |           | Environmental Fate of Glyphosate and its Degradation Products and Their Impact on Soil Phosphorus Cycling              | \$359,795    | \$0              | \$0       |                                  |
| 29   | 2015-07-01-29 | HE/University of Delaware |           | BBN/ARL Tool and Development Support- Tactical Micro=grids 2015 Mishra   | \$0          | \$0              | \$64,102  |                                  |
| 30   | 2015-07-01-30 | HE/University of Delaware |           | Validation and Impacts of Smarter Balanced Assessments on Postsecondary Readiness, Access, Progress And Persistence    | \$3,606,716  | \$0              | \$0       |                                  |
| 31   | 2015-07-01-31 | HE/University of Delaware |           | NWS/Time, Space, and Uncertainty in Tornado Warning Graphics: Baselines for Improved Understanding and Messaging       | \$75,353     | \$0              | \$0       |                                  |
| 32   | 2015-07-01-32 | HE/University of Delaware |           | Assist in Rearing Wood-Boring Insects Such as Emerald Ash Borers and Asian Longhorned Borers and Their Natural Enemies | \$90,909     | \$0              | \$0       |                                  |
| 33   | 2015-07-01-33 | HE/University of Delaware |           | Conference: Extreme Climate Event Impacts On Aquatic Biogeochemical Cycles And Fluxes                                  | \$50,000     | \$0              | \$0       |                                  |
|      |               |                           |           |  |              |                  |           |                                  |

| Item | SAI#          |                           | Applicant | Project Title   | Federal     | Funding<br>State | Other     | Positions<br>Federal State Other |
|------|---------------|---------------------------|-----------|---|-------------|------------------|-----------|----------------------------------|
| 34   | 2015-07-01-34 | HE/University of Delaware |           | Combining Electrical Resistivity Imaging and Conservative Tracers<br>Tests to Characterize and Model Subsurface Phosphorus Losses From<br>Ditch-Drained Soils   | \$144,489   | \$0              | \$0       |                                  |
| 35   | 2015-07-01-35 | HE/University of Delaware |           | Promotion of the Humanities OFC of Digital Humanities   | \$60,397    | \$0              | \$0       |                                  |
| 36   | 2015-07-01-36 | HE/University of Delaware |           | Model-Driven Sensor Management in Support of Decision Making  | \$52,425    | \$0              | \$0       |                                  |
| 37   | 2015-07-01-37 | HE/University of Delaware |           | Spatially Targeted Biomaterials-Directed Engineering of the Adventitium to Enhance Cardiovascular Repair  | \$318,124   | \$0              | \$0       |                                  |
| 38   | 2015-07-01-38 | HE/University of Delaware |           | Material Characterization for Drum Impregnation Modeling Task 3 and 4   | \$0         | \$0              | \$32,052  |                                  |
| 39   | 2015-07-01-39 | HE/University of Delaware |           | Material Characterization for Drum Impregnation Modeling Task 3 and $\mbox{\bf 4}$  | \$0         | \$0              | \$32,052  |                                  |
| 40   | 2015-07-01-40 | HE/University of Delaware |           | A Biochar-Centered Holistic Approach to Reducing Ammonia Emission and Carbon Footprint from Broiler Production  | \$400,990   | \$0              | \$0       |                                  |
| 41   | 2015-07-01-41 | HE/University of Delaware |           | Acquisition of Goods and Services   | \$18,182    | \$0              | \$0       |                                  |
| 42   | 2015-07-01-42 | HE/University of Delaware |           | Laboratory Support for the Brown Marmorated Stink Bug   | \$10,045    | \$0              | \$0       |                                  |
| 43   | 2015-07-01-43 | HE/University of Delaware |           | Elucidating the Impact of Wnt Inhibitory Nanoparticles on Metastatic<br>Potential of Breast Cancer Cells  | \$0         | \$0              | \$30,000  |                                  |
| 44   | 2015-07-01-44 | HE/University of Delaware |           | Drug Delivery Using Injectable Hydrogels: Low Molecular Weight Heparin for Extended Thromboprophylaxis  | \$0         | \$0              | \$68,000  |                                  |
| 45   | 2015-07-01-45 | HE/University of Delaware |           | University of Delaware Body Worn Camera Project   | \$48,152    | \$0              | \$0       |                                  |
| 46   | 2015-07-01-46 | HE/University of Delaware |           | Flowable Antimicrobial Tissue Scaffolding Matrices for Regeneration   | \$0         | \$0              | \$20,313  |                                  |
| 47   | 2015-07-01-47 | HE/University of Delaware |           | Operation and Maintenance of the Land Ocean Biogeochemical<br>Observatory (Sea-Bird Coastal) in the Murderkill River at Bowers,<br>Delaware, on Behalf of the Kent County Department of Public Works (1 | \$0         | \$0              | \$306,962 |                                  |
| 48   | 2015-07-01-48 | HE/University of Delaware |           | Hostility, Marital Interaction, and Cancer Survivorship   | \$0         | \$0              | \$37,210  |                                  |
| 49   | 2015-07-01-49 | HE/University of Delaware |           | Mediated Electrolysis for Efficient and Economical Regeneration of<br>High-Purity Chlorine from Waste Hydrogen Chloride Gas   | \$3,070,903 | \$0              | \$0       |                                  |
| 50   | 2015-07-01-50 | HE/University of Delaware |           | ARL Novel Design, Fabrication and Characterization of Tunable Infrared Notch Filters Mirotznik  | \$400,185   | \$0              | \$0       |                                  |
| 51   | 2015-07-01-51 | HE/University of Delaware |           | Microstructured Hydrogel Materials for Generating Neoadventitium in Venous Grafts   | \$295,626   | \$0              | \$0       |                                  |
| 52   | 2015-07-01-52 | HE/University of Delaware |           | Collagen-Based Targeting for Improving Delivery and Efficacy of Osteoarthritis Drugs  | \$275,000   | \$0              | \$0       |                                  |
| 53   | 2015-07-01-53 | HE/University of Delaware |           | COPS Presidents' Task Force on 21st Century Policing Field Initiated Projects   | \$240,654   | \$0              | \$0       |                                  |
| 54   | 2015-07-01-54 | HE/University of Delaware |           | Nature of Interplanetary Low Energy Electrons and Positrons   | \$1,481,750 | \$0              | \$0       |                                  |

| Item | SAI#          | Δn                        | plicant | Project Title  |             | Funding |           | Positions     |       |
|------|---------------|---------------------------|---------|--|-------------|---------|-----------|---------------|-------|
| nem  | JAI#          | АР                        | privait | Froject Hue  | Federal     | State   | Other     | Federal State | Other |
| 55   | 2015-07-01-55 | HE/University of Delaware |         | Impact of Neonatal Infection on Juvenile Brain Development in Males and Females  | \$0         | \$0     | \$240,000 |               |       |
| 56   | 2015-07-01-56 | HE/University of Delaware |         | WU/NIH Career Development 2011   | \$0         | \$0     | \$87,108  |               |       |
| 57   | 2015-07-01-57 | HE/University of Delaware |         | Investigating Neural Control of Social Communication in Mouse Models of Autism   | \$0         | \$0     | \$240,000 |               |       |
| 58   | 2015-07-01-58 | HE/University of Delaware |         | Exploring Performance-Based Walking Tests as Outcomes in Lumbar Spinal Stenosis  | \$450,000   | \$0     | \$0       |               |       |
| 59   | 2015-07-01-59 | HE/University of Delaware |         | NIH Early-State Development of Informatics Technology  | \$907,158   | \$0     | \$0       |               |       |
| 60   | 2015-07-01-60 | HE/University of Delaware |         | A Three-Dimensional, Cardio and Lymphatic Vascularized In Vitro Metastasis Model   | \$0         | \$0     | \$30,000  |               |       |
| 61   | 2015-07-01-61 | HE/University of Delaware |         | NSF Ship OPS Supplement Safety Maintenance Swallow   | \$75,600    | \$0     | \$0       |               |       |
| 62   | 2015-07-01-62 | HE/University of Delaware |         | UD1022 Drought Resistance, Disease Resistance, and Plant Health<br>Benefits When Incorporated into Soil for Growing Ornamentals and<br>Vegetables  | \$0         | \$0     | \$31,802  |               |       |
| 63   | 2015-07-01-63 | HE/University of Delaware |         | Research and Education Training of African American Undergraduate<br>Engineering Students at an HBCU   | \$0         | \$0     | \$21,794  |               |       |
| 64   | 2015-07-01-64 | HE/University of Delaware |         | Wind Farm Layout Optimizer (WOLF)  | \$0         | \$0     | \$80,912  |               |       |
| 65   | 2015-07-01-65 | HE/University of Delaware |         | NCC Farmers Market Healthy Recipe Demonstration Project  | \$0         | \$0     | \$7,626   |               |       |
| 66   | 2015-07-01-66 | HE/University of Delaware |         | Succession Planning with Prince George's County Educators  | \$0         | \$0     | \$19,684  |               |       |
| 67   | 2015-07-01-67 | HE/University of Delaware |         | Is There Potential of a new Herbicide in Snap Beans  | \$0         | \$0     | \$3,000   |               |       |
| 68   | 2015-07-01-68 | HE/University of Delaware |         | Total Knee Replacement Study   | \$0         | \$0     | \$39,494  |               |       |
| 69   | 2015-07-01-69 | HE/University of Delaware |         | Post Transcriptional Control of Gene Expression in the Lens  | \$1,250,000 | \$0     | \$0       |               |       |
| 70   | 2015-07-01-70 | HE/University of Delaware |         | Structure/Function Studies of Small Heat Shock Proteins  | \$0         | \$0     | \$128,904 |               |       |
| 71   | 2015-07-01-71 | HE/University of Delaware |         | Student Support: IEEE Cluster 2015-2016 Conferences  | \$20,000    | \$0     | \$0       |               |       |
| 72   | 2015-07-01-72 | HE/University of Delaware |         | 2015 Tech Takeover Program   | \$0         | \$0     | \$9,090   |               |       |
| 73   | 2015-07-01-73 | HE/University of Delaware |         | Maximizing the Beneficial Impact of Alternative Energy Efficient<br>Lighting for Poultry Production  | \$136,751   | \$0     | \$0       |               |       |
| 74   | 2015-07-01-74 | HE/University of Delaware |         | Where are the Reference Standards? Industrial History and Decorative<br>Arts Libraries as Sources for Dark Storage Paint Samples to<br>Understand Early Modernist Paint Degradation Mechanisms | \$230,781   | \$0     | \$0       |               |       |
| 75   | 2015-07-01-75 | HE/University of Delaware |         | Controllable Reflectance Roofing System to Tailor Building Solar Loads for Increased HVAC Efficiency   | \$24,496    | \$0     | \$0       |               |       |

| Item | SAI#          |                           | Applicant | Project Title  | Federal     | Funding<br>State | Other     | Positions<br>Federal State Other |
|------|---------------|---------------------------|-----------|--|-------------|------------------|-----------|----------------------------------|
| 76   | 2015-07-01-76 | HE/University of Delaware |           | Integrating Vascularized Biomimetic Tumor Models with Gene Regulatory Nanoparticles to Predict and Prevent Metastasis  | \$0         | \$0              | \$300,000 |                                  |
| 77   | 2015-07-01-77 | HE/University of Delaware |           | 2015-2016 Health Rocks State Institutionalization Grant  | \$0         | \$0              | \$64,680  |                                  |
| 78   | 2015-07-01-78 | HE/University of Delaware |           | 4-H Youth Voice: Youth Choice 2015-16 4H Healthy Living Grants sponsored by Walmart Foundation   | \$0         | \$0              | \$45,000  |                                  |
| 79   | 2015-07-01-79 | HE/University of Delaware |           | Understanding The Complexity of Child Care Decision Making Among Special Populations   | \$85,176    | \$0              | \$0       |                                  |
| 80   | 2015-07-01-80 | HE/University of Delaware |           | Research will be Designed to Study the Efficacy of the JHU Center for<br>Technology Education's TeamQuest Tool for Advancement of<br>Students' Performance/Learning in Mathematics             | \$0         | \$0              | \$36,537  |                                  |
| 81   | 2015-07-01-81 | HE/University of Delaware |           | Fabrication of Vertical Mooring Line Array with Hydrophones with<br>Oceanographic Sensors for Ambient Noise Measurements During the<br>Bottom Survey of the Seabed Characterization Experiment | \$24,256    | \$0              | \$0       |                                  |
| 82   | 2015-07-01-82 | HE/University of Delaware |           | Quantum Mechanical Study of Interactions in Polymer Composites   | \$115,378   | \$0              | \$0       |                                  |
| 83   | 2015-07-01-83 | HE/University of Delaware |           | Christiana Care Health Services Research Agreement   | \$0         | \$0              | \$118,736 |                                  |
| 84   | 2015-07-01-84 | HE/University of Delaware |           | FY16 Structures Lab Support Services   | \$0         | \$0              | \$38,608  |                                  |
| 85   | 2015-07-01-85 | HE/University of Delaware |           | Preliminary Assessment of Bamboo for Use as a Railway Cross-Tie Material   | \$0         | \$0              | \$32,019  |                                  |
| 86   | 2015-07-01-86 | HE/University of Delaware |           | Mott Foundation Statewide Afterschool Partnerships Grant   | \$0         | \$0              | \$12,500  |                                  |
| 87   | 2015-07-01-87 | HE/University of Delaware |           | Variability and Mechanism of the Inhomogeneous Subpolar North Atlantic Warming During the Global Surface Warming Hiatus  | \$302,746   | \$0              | \$0       |                                  |
| 88   | 2015-07-01-88 | HE/University of Delaware |           | Priming the Brain for Stroke Recovery: Optimizing the Neurotrophic Effects of Aerobic Exercise   | \$0         | \$0              | \$2,920   |                                  |
| 89   | 2015-07-01-89 | HE/University of Delaware |           | Adverse Neurogenic Actions of Dietary Salt   | \$2,600,790 | \$0              | \$0       |                                  |
| 90   | 2015-07-01-90 | HE/University of Delaware |           | The Turbulent Dissipation Challenge: Short-Wavelength Turbulence in the Solar Wind   | \$0         | \$0              | \$160,492 |                                  |
| 91   | 2015-07-01-91 | HE/University of Delaware |           | Collaborative Proposal: Multi-Perspective Evacuation Performance<br>Measurement  | \$97,661    | \$0              | \$0       |                                  |
| 92   | 2015-07-01-92 | HE/University of Delaware |           | NSF Collaborative Proposal: Stress Type2: A Data-Driven, Community Platform for Research on Word Accentual Patterns and their Relation to Phonetics, Phonology, and Morphology                 | \$193,809   | \$0              | \$0       |                                  |
| 93   | 2015-07-01-93 | HE/University of Delaware |           | Development and Application of a Multiscale Lagrangian Model for Cloud Physics Research  | \$484,889   | \$0              | \$0       |                                  |
| 94   | 2015-07-01-94 | HE/University of Delaware |           | Promoting First Relationships in Early Head Start Classrooms   | \$2,004,375 | \$0              | \$0       |                                  |
| 95   | 2015-07-01-95 | HE/University of Delaware |           | Wind Turbine Electrical Generators - Radiated Acoustic Field - Impact on Coastal Community Economies   | \$0         | \$0              | \$220,455 |                                  |
| 96   | 2015-07-01-96 | HE/University of Delaware |           | Novel Therapeutics for Pediatric Crohn's Disease   | \$0         | \$0              | \$302,459 |                                  |

| Item | SAI#                       | Applicant                                   | Project Title  |             | Funding |             | Positions           |
|------|----------------------------|---|--|-------------|---------|-------------|---------------------|
|      |                            |   | ·  | Federal     | State   | Other       | Federal State Other |
| 97   | 2015-07-01-97              | HE/Delaware State University                | Development of portable Quantum Cascade Laser Based Sensor<br>System for Sensitive Detection of Uranium  | \$264,438   | \$0     | \$0         |                     |
| 98   | 2015-07-01-98              | HE/Delaware State University                | Stregthening Continuity of Delaware State University Biotechnology Program (DSU-Biotech)   | \$749,318   | \$0     | \$0         |                     |
| 99   | 2015-07-01-99              | HE/Delaware State University                | INBRE III- State Supplement 2015   | \$0         | \$0     | \$200,000   |                     |
| 100  | 2015-07-02-01              | HE/Delaware State University                | Soil Health & Beekeeping- Year 2   | \$100,280   | \$0     | \$0         |                     |
| 101  | 2015-07-02-02              | HE/Delaware State University                | Sub-Contract to Evaluate the Predictive Validity of Smarter Balanced<br>Assessments as Indicators of College Readiness in Selected Majors<br>(STEM Fields and Nursing) | \$0         | \$0     | \$1,030,105 |                     |
| 102  | 2015-07-02-03              | HE/Delaware State University                | A Biochar-Centered Holistic Approach to Reducing the NH3 Emission & Carbon Footprint from Broiler Production   | \$147,902   | \$0     | \$0         |                     |
| 103  | 2015-07-02-04              | HE/Delaware State University                | City Lab- Baltimore  | \$300,900   | \$0     | \$0         |                     |
| 104  | 2015-07-02-05              | HE/Delaware State University                | Acquisition of Goods and Services  | \$4,000     | \$0     | \$0         |                     |
| 105  | 2015-07-02-06              | HE/Delaware State University                | R&D Modeling & Chemmetrics   | \$149,988   | \$0     | \$0         |                     |
| 106  | 2015-07-02-07              | HE/Delaware State University                | Design & Fabrication of Uncooled Thermal Detectors   | \$359,325   | \$0     | \$0         |                     |
| 107  | 2015-07-02-08              | HE/Delaware State University                | Assess to Success (A2S)  | \$2,647,764 | \$0     | \$0         |                     |
| 108  | 2015-07-02-09              | HE/Delaware State University                | Modulation of Dopaminergic Neurotransmission by Pre-Synaptic D2 Auto-Receptors   | \$526,394   | \$0     | \$0         |                     |
| 109  | 2014-05-31-01<br>Amendment | HE/Delaware State University                | Training Socially Disadvantaged, Limited Resource, & Underserved<br>Producers on the Use of a Web Bases Decision Aid for Different USDA<br>Programs                    | \$286,498   | \$0     | \$0         |                     |
| 110  | 2015-07-02-10              | HE/Delaware Technical and Community College | FY16 EDUCATIONAL TALENT SEARCH (ETS)   | \$299,510   | \$0     | \$0         |                     |
| 111  | 2015-07-02-11/2282         | HE/Delaware Technical and Community College | NIH IDEA OF BIOMEDICAL RESEARCH & RESEARCH TRAINING  | \$194,549   | \$0     | \$100,000   |                     |